

Deborah Gordon

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Professional Experience

Carnegie Endowment for International Peace

Director and Senior Associate, Energy and Climate Program

2010 to present

- Manage program staff and a \$750k budget
- Lead Carnegie's Global Oil Initiative, investigating the growing array of global oils and gas resources and developing policies to manage their energy and climate challenges
- Develop *first-of-its-kind* Oil-Climate Index, assessing and comparing global oils based on their lifecycle greenhouse gas emissions and expanding it to cover gas resources
- Collaborate with NGO, academic, government, and private stakeholders on climate-relevant energy, transport, lifecycle emission assessment, and geoengineering projects

Policy Consultant

Specializing in transportation, energy, and environmental policy

1996 to 2010

- Conducted policy analysis, design and development; strategic planning; feasibility studies; policy white papers; technical assistance, and policy advising on issues ranging from oil, innovative transport, energy and climate issues, clean vehicles, alternative fuels, fiscal measures, economic incentives, and new mobility options
- Clients included (partial listing), International Council on Clean Transportation, Hewlett Foundation; Energy Foundation, Union of Concerned Scientists, ClimateWorks, National Commission on Energy Policy, National Transportation Policy Project, California Energy Commission, Truman Security Project

Yale School of Forestry and Environmental Studies

Program Director/ Lecturer/ Senior Research Scholar

1996 to 2000

- Co-Directed the Yale Transportation and Environment Program, conducted applied research on transportation policymaking
- Designed and taught graduate seminar on transportation and the environment

Union of Concerned Scientists

Director of Transportation & Energy Programs/Senior Policy Analyst

1989 to 1996

- Supervised and directed staff of 14 professionals in four different U.S. locations and managed a program budget of \$1.5 million

- Delivered expert testimony and advice on transportation, environmental, and energy policy issues to government, non-profit, foundation, media, academia, and private sector
- Developed precedent-setting transportation policies including clean-car incentive programs, alternative fuels proposals, and intelligent transportation system criteria

Lawrence Berkeley Laboratory (U.S. Department of Energy)

Policy Analyst

1988 to 1989

- Analyzed clean car *feebate* program in collaboration with LBL staff scientists
- Designed and analyzed a market incentive program to increase consumer demand for green motor vehicles and, under a grant from the U.S. Environmental Protection Agency; drafted model legislation (DRIVE+) in California which was passed by the State Legislature and has served as a model for developing *feebate* programs in other states and nations

Chevron U.S.A., Inc.

Chemical and Regulatory Engineer

1982 to 1987

- Served as principal negotiator for environmental mitigation strategies and permit conditions for major off-shore oil development
- Delivered public testimony, monitored regulatory developments, and advised Chevron staff to ensure environmental compliance

Author

Books, Edited Volumes, Major Reports

Ongoing

- Bottomless Barrel: The Environmental Challenges of Abundant Oil and Gas in the 21st Century, new book project underway; prospectus in review at Oxford University Press
- Petroleum Coke Use in India and South Asia: Recent Trends and Emerging Policy Options, Edited volume (with D. Livingston), Institute for Policy, Advocacy, and Governance, October 2017
- The Oil-Climate Index: Assessing GHG Emission Impacts Across the Oil Value Chain, (with Jeffrey Feldman, Joule Bergerson, Adam Brandt, and Jonathan Koomey), In Encyclopedia of Sustainable Technologies, Elsevier, Summer 2017
- Smart Tax: Pricing Oil for a Safe Climate, Carnegie Endowment for International Peace (with Jessica Tuchman Mathews), June 2016
- Know Your Oil: Creating a Global Oil Climate Index, Carnegie Endowment for International Peace (with A. Brandt, J. Bergerson, J. Koomey), March 2015
- New Realities: Energy Security in the 2010s and Implications for the U.S. Military, United States Army War College Press, Edited volume, January 2014
- Transport Beyond Oil: Policy Choices for a Multimodal Future, Island Press, Edited volume (with D. Burwell), March 2013
- Global Ten: Managing the Unconventional Oil and Gas Bonanza, Carnegie Endowment for International Peace, Edited volume (with D. Burwell), January 2013
- The Role of Transport in Driving Climate Disruption, Carnegie Endowment for International Peace, December 2010

- Two Billion Cars, (with D. Sperling), Oxford University Press, January 2009; paperback with *Afterword*, April 2010; In Chinese, Shanghai JiaotongUP, July 2011
- Steering a New Course: Transportation, Energy, and the Environment, (Washington, D.C.: Island Press), 1991, 236 pp. (textbook in University transportation policy courses)

Education

University of California, Berkeley
Goldman School of Public Policy
Masters of Public Policy, 1989

University of Colorado, Boulder
Chemical Engineering
Bachelor of Science, 1982

Website, Articles, Podcasts, and Media Cites (selected)

- Carnegie Oil Initiative Webpage, ongoing catalogue of articles, events, blogs, and media appearances <http://carnegieendowment.org/specialprojects/CarnegieOilInitiative/>
- Carnegie Oil-Climate Index Web Tool, <http://oci.carnegieendowment.org/>
- LiveMint, *India's Double Rush for Electric Vehicles and Oil Refineries*, April 25, 2018
- Houston Chronicle, *Touting Oil Exports Means Comparing Maple Syrup and Cream Soda*, March 22, 2018
- The National Interest, *Could Geoengineering Save the Planet from Global Warming?* September 21, 2017
- Carnegie Podcast, *Corruption in the Oil Industry*, September 8, 2017
- Sacramento Bee, *Three Ways to Clean Up California's Oil Production*, November 9, 2017
- Mark News, *From Standard Oil to Smarter Oil*, May 1, 2017
- The Hill, *If the US Government Stifles Knowledge on the Environment, States May Be Able to Help*, April 3, 2017
- Medium, *Power to the States: How Carbon Pricing Can Be a Winning Strategy Under a Trump Administration*, April 3, 2017
- The National Interest, *Together, Globalists and Localists Can Save the Environment*, (with Robert Murphy), March 15, 2017
- The International Economy Magazine, *Future Surprises that Could Shock the World*, September 14, 2016
- Pacific Standard, *California's Unspoken Oil Failure*, (with David Livingston), May 6, 2016
- Reddit AMA on the Road Through Paris, December 14, 2015
- Platts Capitol Crude Podcast, *Index for Crude Oil's Climate Impact Illuminates What's Behind the Barrels*, September 14, 2015
- Reddit AMA on the Oil-Climate Index, September 4, 2015
- The Hill Op Ed, *The Third Fossil Fuel in the Climate Conversation*, August 10, 2015
- Boao Review, *Creating an Oil-Climate Index: Key Lessons for Asian Policymakers*, July 31, 2015
- About Oil Magazine, *At the heart of OPEC: Strategies & reflections*, July 9, 2015
- The National Interest, *The Complexities of U.S. Oil Exports*, March 21, 2014
- CS Monitor, *Will California Frack: Not Without Oil*, January 18, 2014
- International Economy Magazine, *U.S. Energy Independence is Unlikely*, December 13, 2013
- Huffington Post, *The Third Carbon Age*, August 8, 2013
- Scientific American, *Fossil Fuels—A New Normal*, July 15, 2013

- The New York Times, *Let's Not Braise the Planet*, Mark Bittman, July 1, 2013 (linked report)
- The Hill, *Managing the New Oil Bonanza*, February 11, 2013
- Center for New American Security, *Read These Now: Energy & Climate Recommendations for the Second Term*, January 23, 2013
- Scientific American, *Navigating the New World of Oils*, January 15, 2013
- E&E TV, *The Future of Unconventional Oil in the United States*, May 2012
- Time Magazine, *There Will Be Oil—And That's the Problem*, March 29, 2012
- European Financial Review, *Critical Crossroads*, forthcoming October 2011
- International Monetary Fund, F&D Magazine, *Quest in Search of Itself*, Book Review (Daniel Yergin, *The Quest*), September 2011
- NPR Interview, To the Point, *Carmageddon*, July 15, 2011
- Politico, *Big Oil's Slick Profit Day?* April 29, 2011
- C-Span Interview, *Washington Journal*, June 21, 2010
- Washington Post, *Big Oil Can't Get Beyond Petroleum*, June 13, 2010
- World Bank blog, *Following China's Lead Transforming Transportation*, June 7, 2009
- C-Span, Book TV, *After Words*, November 23, 2009
- Yale Environment 360, *Surviving Two Billion Cars: China Must Lead the Way*, March 5, 2009
- New York Times, Op Ed (with D. Sperling), *How High Gas Prices Can Save the Car Industry*, November 16, 2008

Publications (selected)

- *Oil Shake Up: Refining Transitions in a Low-Carbon Economy*, (with Madhav Acharya, ARPA-E), Carnegie Endowment for International Peace, April 2018
- *Understanding Climate Engineering*, Carnegie Endowment for International Peace, August 2017
- *Need to Know: The Case for Oil Transparency in California*, (with Samuel Wojciki), Carnegie Endowment for International Peace, March 2017
- *Drilling Down on Oil: The Case of California's Complex Midway Sunset Field*, (with Samuel Wojciki), Carnegie Endowment for International Peace, March 2017
- *Oil Innovations to Reduce Climate Impacts*, (with Jeffrey Feldman), October 2016
- *Getting Smart About Oil in a Warming World*, Carnegie Endowment for International Peace (with Jonathan Koomey, Adam Brandt, and Joule Bergerson), October 2016
- *Energy Return on Investment (EROI) for Forty Global Oilfields Using a Detailed Engineering-Based Model of Oil Production* (with Brandt AR, Sun Y, Bharadwaj S, Livingston D, Tan E), PLoS ONE 10(12): e0144141. doi:10.1371/journal.pone.0144141, 2015
- *China's Oil Future* (with Yevgen Sautin and Wang Tao), Carnegie Endowment, May 6, 2014
- *Texas' Oil and Water Tighrope* (with Kate Garner), Carnegie Endowment, March 11, 2014
- *Mapping California's Oil-Water Risks* (with Kate Garner), Carnegie Endowment, January 15, 2014
- *Uncovering Oils' Unknowns* (with Chris Malins), Carnegie Endowment, June 2013
- *The Carbon Contained in Global Oils*, Carnegie Endowment, December 2012

- *Policy Priorities for Advancing the U.S. Electric Vehicle Market*, Carnegie Endowment, September 2012
- *Understanding Unconventional Oil*, Carnegie Endowment, May 2012
- *Driving Force: Energy and Climate Strategies for China's Motorization* (with Yuhan Zhang), Carnegie Endowment, April 2011
- *A Review and Comparative Analysis of Fiscal Policies Associated with New Passenger Vehicle CO₂ Emissions* (Contributing author), International Council for Clean Transportation, February 2011
- *The Role of Transportation in Driving Climate Disruption*, Carnegie Endowment for International Peace, December 2010
- *Driving Transportation Innovation*, Next10.org, November 2009
- *Managing Motorcycles*, International Council on Clean Transportation, 2009
- *Getting There Greener*, Union of Concerned Scientists, December 2008
- *Advance Passenger Transportation Technologies* (with D. Sperling), Journal of Transportation Technology, 2008
- *Sipping Fuel and Saving Lives: Optimizing Vehicle Safety and Fuel Economy Simultaneously*, (co-authored), William and Flora Hewlett Foundation, June 2007
- *Climate Change Mitigation: Findings of the IPCC Fourth Assessment Report*, (co-authored), Union of Concerned Scientists, IPCC Highlight Series, 2007
- *Passenger Vehicle CO₂ and Fuel Economy Standards: A Global Review* (co-authored), International Council on Clean Transportation, 2007
- *Fiscal Policies for Sustainable Transportation: International Best Practices*, In Studies on International Fiscal Policies for Sustainable Transportation, published in English and Chinese by the China Sustainable Energy Program, Packard Foundation, Hewlett Foundation, and the Energy Foundation, March 2005
- *Federal Oil Subsidies: How Can They Best Be Targeted?* National Commission on Energy Policy, April 2004
- *DRIVE+: Promoting Cleaner and More Fuel-Efficient Motor Vehicles Through a Self-Financing System of State Tax Incentives*, In Journal of Policy Analysis and Management, Volume 9, Number 3, 1990

Advisory Boards and Fellowships

- Senior Fellow, Brown University, Watson Institute for International & Public Affairs (2016 to present)
- Advisory Board, Colorado School of Mines, Payne Institute (2018 to present)
- Advisory Board, Environmental and Energy Study Institute (2017 to present)
- Visiting Fellow, University of California, Institute of Transportation Studies (2001 to 2002)
- Appointed Member, Transportation Research Board, Energy Committee (1998 to 2004)
- Committee Member, National Research Council, Committee on Vehicle Inspection and Maintenance (1999 to 2001)
- Committee Member, National Research Council, Standing Committee to Review the Research Program of the Partnership for a New Generation of Vehicles (1994 to 1996)

- Committee Member, American Academy of Arts and Sciences, *Avoiding the Collision of Cities and Cars* (1993)

Testimony, Keynotes, and Lectures (selected)

- National Academy of Sciences, Presentation to the Committee on Anthropogenic Methane Emissions in the US, June 1, 2017
- Briefings to U.S. Department of State, U.S. Department of Energy, U.S. Environmental Protection Agency, U.S. Congressional Committees, California Air Resources Board, California Energy Commission, Canadian Government, European Commission, World Economic Forum, International Energy Agency, ongoing 2015-2016
- U.S. Congress, House Subcommittee on Energy and Power, December 11, 2014
- U.S. Congress, House Foreign Affairs Subcommittee on Terrorism, Nonproliferation, and Trade, April 2014
- Georgetown University, March 2014
- Kaist Business School (South Korea), *Cases in Green Finance* (MBA class), June 2017, July 2016, July 2015 / July 2014/ June 2013/September 2013/ October 2011/October 2010
- Aspen Institute Energy Forum, June 2013
- Union of Concerned Scientists, Board of Directors, May 2013
- NORDEA Bank, March 2013
- East-West Center, February 2013
- World Energy Council, Berlin, Germany, September 2012
- U.S. Department of State, German Embassy, September 2012
- University of Virginia, Batten School of Leadership and Public Policy, April 2012
- Darden Business School, University of Virginia, *Car of the Future and Future of the Car* Conference, November 2010
- Carnegie Endowment for International Peace, *Transportation Driving Climate Disruption*, Keynote Speaker, December 2010
- Miller Center for Public Affairs, University of Virginia, Speaker Series April 2010
- World Bank, Washington, D.C., January 2009 and May 2009
- Transportation Research Board, Denver, Colorado, July 2009
- Virginia Festival of the Book, Charlottesville, VA, March 2009
- World Affairs Council, Washington, D.C., January 2009
- Rodman Engineering Fellowship Program, University of Virginia, Keynote Speaker 2008
- Advisory Council on Energy, National Conference of State Legislatures, December 1998
- Climate Action Plan, White House Policy Dialogue Advisory Committee, February 1995
- California Energy Commission, Testimony on Sustainable Transportation, 1994
- U.S. House of Representatives, Subcommittee on Energy and Power, March 1991

Awards

- Transportation Research Board's Fred Burggraf Award (1992)
- L.B.J. Congressional Fellow (1988)

- Tau Beta Pi (Engineering Honorary Society) (1981)